

**PICMG 1.3 LGA775 Intel® Core™ 2 Quad CPU With VGA,  
Dual Intel® PCIe GbE, SATA II and USB2.0**

# **PCIE-Q350**

## **Quick Installation Guide**

### **Version 1.0**

Nov. 05, 2007

#### **Package Contents**

PCIE-Q350 package includes the following items:

- 1 x PCIE-Q350 Single Board Computer
- 1 x Mini jumper pack
- 6 x SATA cables
- 3 x SATA power Cables
- 1 x Dual RS-232 Cable
- 1 x USB cable
- 1 x Utility CD
- 1 x QIG (Quick Installation Guide)



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## Specifications

- CPU: LGA775 Intel® Core™ 2 Duo(45nm and 65nm), Intel® Core™ 2 Quad(45nm and 65nm), Intel® Celeron(65nm)
- System Chipset: Intel® Q35 + ICH9DO
- BIOS: AMI BIOS
- System memory: 4 x 240 pin Dual channel DDR2 667/800MHz up to 8GB
- Ethernet: One Intel® 82566DM(PHY) and Intel® ICH9DO(MAC)  
One PCIe x1 Intel® 82573L(MAC+PHY)
- I/O Interface:
  - 12 x USB 2.0 (2x External,6x on board,4x on backplane)
  - 6 x SATAII
  - 2 x RS-232
  - 1 x keyboard/mouse pin header
- Super I/O: ITE IT8718F
- Digital I/O:16-bit digital I/O,8-bit input/ 8-bit output
- IrDA:1x IrDA by pin header
- Audio: 7.1 Channel HD Audio kit with Realtek ALC883 codec and dual audio stream supported
- Display: VGA integrated in Q35  
Analog VGA display through external DB-15 connector
- Watchdog timer: Software programmable supports 1~255 sec. system reset
- Power Supply: On board 4pin 12V ATX power connector  
Backplane 24pin ATX power on PICMG1.3 backplane
- Power consumption :  
5V@5.1A,+12V@4.23A,+3.3V@3A,5VSB@0.28A  
(2.66GHz E6700 Intel® Core™ 2 Duo CPU with 1066MHz FSB and 2GB 667 MHz DDR2 DIMM, running -- 3D Mark 2001 )
- Temperature: 0 ~ 60°C( 32 ~ 140°F)

- Humidity: Operation: 5% ~ 95%
- Dimension: 338mm x 126mm;
- Weight: GW: 1.1 Kg;

## **Ordering Information**

### PCIE-Q350-R10

PICMG 1.3 CPU Card supports Intel® 45nm LGA 775 CoreTM 2Duo/Quad  
CPU at FSB 800/1066/1333MHz, Intel® Q35 & ICH9-DO platform,  
Dual Intel® GbE, 6 SATAII with RAID Functions, USB 2.0

### AC-KIT883HD-R10

7.1 Channel HD Audio kit with Realtek ALC883 supports dual audio streams

### CF-520-RS:

High Performance CPU Cooler (115mmx115mmx67mm)

### TPM-IN01-R10:

Infineon 20-pin Trusted Platform Module with S/W Management Tool

### TPM-SI01-R10:

Sinosun 20-pin Trusted Platform Module with S/W Management Tool

### TPM-WI01-R10:

Winbond 20-pin Trusted Platform Module with S/W Management Tool

### SDVO-100VGA-R10:

PCIe x16 VGA Output SDVO Card Supports dual display  
(IEI CPU Board only)

### SDVO-100DVI-R10:

PCIe x16 DVI Output SDVO Card Supports dual display  
(IEI CPU Board only)

### 19800-000075-RS

KEYBOARD/MOUSE CABLE WITH BRACKET

### CF-775A-RS

LGA 775 CPU Cooler

## Jumpers setting & Connector

<b>CLR_CMOS1 : Clear CMOS Setup (1*3 pin header, pitch 2.00mm)</b>	
JP1	DESCRIPTION
1-2	Normal (default)
2-3	Clear CMOS Setup

<b>IR1 : IR Connector</b>	
PIN	DESCRIPTION
1	VCC
2	NC
3	IR-RX
4	GND
5	IR-TX

<b>COM1,2 : 10-Pin Serial Port Connector</b>			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	DCD	2	DSR
3	RXD	4	RTS
5	TXD	6	CTS
7	DTR	8	RI
9	GND	10	NC

<b>USB1,2,3 : 2 ports USB Connector</b>			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	VCC	2	GND
3	DATA0-	4	DATA1+
5	DATA0+	6	DATA1-
7	GND	8	VCC

<b>CPU_FAN1: Fan Connector</b>	
PIN	DESCRIPTION
1	GND
2	+12V
3	Sense
4	Speed control

<b>SYS_FAN1: Fan Connector</b>	
PIN	DESCRIPTION
1	GND
2	+12V
3	Sense

<b>DIO1: 18-pin Digital I/O Connector</b>			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	D_GPI_0	2	D_GPO_0
3	D_GPI_1	4	D_GPO_1
5	D_GPI_2	6	D_GPO_2
7	D_GPI_3	8	D_GPO_3
9	D_GPI_4	10	D_GPO_4
11	D_GPI_5	12	D_GPO_5
13	D_GPI_6	14	D_GPO_6
15	D_GPI_7	16	D_GPO_7
17	GND	18	+5V

<b>F_PANEL1 : Front Panel Jumper</b>			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	Power LED+	2	Speaker+
3	GND	4	NC
5	Power LED-	6	NC
7	Power Button-	8	Speaker-
9	Power Button+	10	NC
11	IDE LED+	12	Reset Button+
13	IDE LED-	14	Reset Button-

<b>AUDIO1 : Front Audio Connector</b>			
PIN	DESCRIPTION	PIN	DESCRIPTION
1.	SYNC	2.	CLOCK
3.	SDOUT	4.	PC_BEEP
5.	SDIN	6.	RESET
7.	+5V	8.	GND
9.	+12V	10.	GND

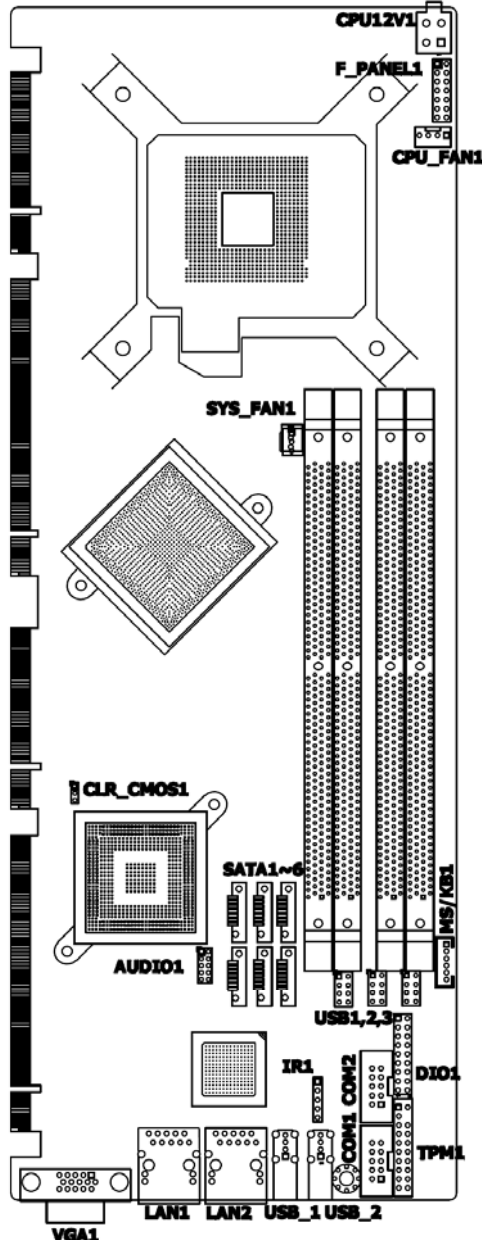
<b>TPM1 : TPM Connector</b>			
<b>PIN</b>	<b>DESCRIPTION</b>	<b>PIN</b>	<b>DESCRIPTION</b>
1	TPM_CLOCK	2	GND
3	LPC_FRAME#	4	Key
5	RESET#	6	+5V
7	LAD3	8	LAD2
9	+3V	10	LAD1
11	LAD0	12	GND
13	SMB_CLOCK	14	SMB_DATA
15	+3.3SBY	16	SER_IRQ
17	GND	18	CLKRUN#
19	LPC_PD#	20	LDRO#

<b>CPU12V1 : CPU Power Connector</b>			
<b>PIN</b>	<b>DESCRIPTION</b>	<b>PIN</b>	<b>DESCRIPTION</b>
1	GND	2	GND
3	+12V	4	+12V

<b>MS/KB1 : Mini DIN Keyboard/Mouse Connector</b>	
<b>PIN</b>	<b>DESCRIPTION</b>
1	5V_DUAL
2	MOUSE DATA
3	MOUSE CLOCK
4	KEYBOARD DATA
5	KEYBOARD CLOCK
6	GND

<b>SDVO1 : SDVO control signal connector</b>	
<b>PIN</b>	<b>DESCRIPTION</b>
1	EXP_EN
2	SDVO_CLOCK
3	SDVO_DATA

# Layout



# Dimension

